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**BOROUGH OF HARWICH.**

# **ANNUAL REPORT FOR 1945**

**OF THE  
MEDICAL OFFICER OF HEALTH  
AND SANITARY INSPECTOR.**

# **BOROUGH OF HARWICH.**

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## **HEALTH DEPARTMENT OFFICERS.**

*Medical officer of Health :*

J. ROLAND HETHERINGTON,  
L.R.C.P. and S.E., L.R.F.P. and S.G., D.P.H.

*Deputy Medical Officer of Health (Part time) :*

KIERAN PHELAN, M.B., B.Ch., B.A.O.

*Sanitary Inspector :*

A. E. PRICE, Cert. R.S.I. and S.I.J.E.B.

*M. & C.W. Dental Officer (part time) :*

L. G. WHELPTON, L.D.S., R.C.S., Eng.

*Health Visitors :*

Miss F. CORRAN, S.R.N., S.C.M.  
Miss E. A. THURSTON, S.R.N., S.C.M.

*Clerk :*

Miss R. M. WHITMORE.

**ANNUAL REPORT OF THE  
MEDICAL OFFICER OF HEALTH  
FOR THE YEAR 1945.**

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TO THE MAYOR, ALDERMEN AND COUNCILLORS OF THE  
BOROUGH OF HARWICH.

Gentlemen,

I have the honour to present the Annual Report for the year 1945.

I should like to place on record the yeoman service for the Borough performed by the late Sanitary Inspector, Mr. F. H. French. For thirty-five years, first as inspector of nuisances, and later as Sanitary Inspector and the added duties of Borough Engineer and Surveyor, he laboured for the wellbeing of the Town with untiring steadfastness and singleness of purpose. His name will long be remembered and his memory respected by those whose duty fall in the spheres in which he laboured.

In presenting this report it gives me great pleasure to express my thanks for the helpful co-operation of the various officials and the continued loyal support of the members of this Department.

I am,

Your obedient servant,

J. ROLAND HETHERINGTON,

*Medical Officer of Health.*

Health Department,  
Main Road,  
Dovercourt.  
October, 1946.

# ANNUAL REPORT, 1945.

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## SECTION A.

### STATISTICS AND SOCIAL CONDITIONS OF THE AREA.

The area of the Borough is 1,512 acres.

Population (Census 1931) was 12,700.

Registrar General's Estimated Population (mid 1945)—9,963.

Rateable value £78,940.

The sum represented by a Penny Rate £305 0s. 0d.

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### VITAL STATISTICS.

#### 1. Birth Rate.

	M.	F.	Total.
Live Births, legitimate ... ..	102	92	194
„ „ illegitimate... ..	13	10	23
Total live births ... ..	115	102	217
Birth rate per 1,000 estimated population ... ..	21.78		
	M.	F.	Total.
Still Births ... ..	4	5	9
Still birth rate per 1,000 births .	39.82		

#### 2. Infantile Mortality.

	M.	F.	Total.
Death of infants under 1 year ...	6	2	8
Death Rate of all infants under 1 year per 1,000 live births ...	36.86		
Death Rate of legitimate infants under 1 year per 1,000 live legitimate births ... ..	41.24		
Death Rate of illegitimate infants under 1 year per 1,000 live illegitimate births ... ..	Nil.		

There were no deaths during the year from infantile Diarrhoea under 2 years of age.

#### 3. Deaths.

	M.	F.	Total.
Deaths during year ... ..	75	49	124
Crude Death Rate per 1,000 estimated population...			12.45

# CAUSES OF DEATH.

	M.	F.	Total.
1. Typhoid and Paratyphoid Fevers ...	0	0	0
2. Cerebro-Spinal Fever ...	0	0	0
3. Scarlet Fever ...	0	0	0
4. Whooping Cough ...	0	0	0
5. Diphtheria ...	0	0	0
6. Tuberculosis of Respiratory System.	3	1	4
7. Other forms of Tuberculosis ...	0	1	1
8. Syphilitic Diseases ...	0	0	0
9. Influenza ...	1	0	1
10. Measles ...	0	0	0
11. Acute Poliomyelitis and Polioencephalitis ...	0	0	0
12. Acute in-Encephalitis ...	0	0	0
13. Cancer of Stomach and Duodenum .	1	1	2
14. Cancer of Buccal Cavities and Oesophagus and Uterus ...	2	1	3
15. Cancer of Breast ...	0	3	3
16. Cancer of all other sites ...	5	6	11
17. Diabetes ...	1	0	1
18. Intracranial Vascular Lesions ...	3	7	10
19. Heart Disease ...	17	13	30
20. Other Diseases of Circulatory System ...	0	2	2
21. Bronchitis ...	7	1	8
22. Pneumonia ...	6	4	10
23. Other Respiratory Diseases ...	2	0	2
24. Ulcer of Stomach or Duodenum ...	5	0	5
25. Diarrhoea under 2 years ...	0	0	0
26. Appendicitis ...	0	0	0
27. Other Digestive Diseases ...	2	1	3
28. Nephritis ...	1	0	1
29. Puerperal and Post Abortional Sepsis	0	0	0
30. Other Maternal Causes ...	0	0	0
31. Premature Birth ...	2	1	3
32. Congenital Malformation, Birth Injuries and Infantile Diseases ...	0	0	0
33. Suicide ...	0	0	0
34. Road Traffic Accidents ...	1	0	1
35. Other violent causes ...	0	0	0
36. All other causes ...	15	8	23
	<hr/> 75	<hr/> 49	<hr/> 124

# DEATHS AT VARIOUS AGES DURING 1945.

Under 1 year	...	...	...	...	8
1 and under 2	...	...	...	...	1
2 and under 5	...	...	...	...	1
5 and under 15	...	...	...	...	1
15 and under 25	...	...	...	...	1
25 and under 35	...	...	...	...	2
35 and under 45	...	...	...	...	9
45 and under 55	...	...	...	...	15
55 and under 65	...	...	...	...	21
65 and under 75	...	...	...	...	31
75 and upwards	...	...	...	...	34
					<hr/> 124 <hr/>

**TABLE I.**  
**VITAL STATISTICS—1944 and 1945.**

		<i>England and Wales.</i>		<i>Essex.</i>		<i>Harwich.</i>	
		1944	1945	1944	1945	1944	1945
Birth Rate	...	17.6	16.1	19.4	17.3	28.7	21.78
Death Rate	...	11.6	11.4	11.8	11.5	11.72	12.45
I.M. Rate	...	46	46	38	39	52.43	36.86

**TABLE II.**  
**VITAL STATISTICS FOR 1944 AND CERTAIN  
PREVIOUS YEARS.**

<i>Year.</i>				<i>Birth Rate.</i>	<i>Death Rate.</i>	<i>Infant Mortality Rate.</i>
1910	...	...	...	27.2	10.1	80
1915	...	...	...	23.4	12.3	108
1920	...	...	...	31.1	11.6	81
1925	...	...	...	20.2	10.6	50
1930	...	...	...	16.9	10.3	48.5
1935	...	...	...	16.4	10.1	47.8
1936	...	...	...	14.72	11.39	15.9
1937	...	...	...	14.81	11.79	31.9
1938	...	...	...	15.51	12.80	20.51
1939	...	...	...	15.51	12.80	20.51
1940	...	...	...	15.26	12.67	42.25
1941	...	...	...	20.39	13.93	60.24
1942	...	...	...	21.38	12.29	36.31
1943	...	...	...	18.99	13.07	39.11
1944	...	...	...	28.7	11.72	52.43
1945	...	...	...	21.78	12.45	36.86

## Comment.

(1) The population trends during the past two years show a gradual return to the pre-war figure, but it is difficult to visualise any further substantial increase until such time as housing conditions are radically improved.

This same lack of accommodation will also considerably hamper any future industrial development in either the Borough or adjoining districts.

(2) Leaving out of account the Birth Rate for 1944 (which was phenomenal and was largely due to War conditions), the rate for the year under review is the highest since 1922.

(3) The Death Rate for the area has remained fairly static throughout the past decade. The principal causes of death during the year were :—

Diseases of Heart and Circulation ... ..	42
Diseases of Respiratory System (including Pneumonia in infants) ... ..	20
Cancer in all forms ... ..	19
Gastric or duodenal Ulcer ... ..	5
Tuberculosis ... ..	5

These five groups account for 75 per cent. of all deaths.

## (4) STILL BIRTHS AND INFANT DEATHS.

During the year, nine Still Births were reported, and also the death of eight Infants under the age of 12 months.

In the six year period 1940-45, twenty-seven Still Births were notified, and in the same period 53 Infants did not survive 12 months.

The reasons for these still births are largely unknown, and call for much careful investigation. Unfortunately the information obtainable is usually of little use, owing to its vagueness ; it is however only by persistent and methodical enquiry that one hopes ultimately to materially reduce this loss of potential lives.

With regard to the loss of Infant life, the undermentioned table may be of interest :—



**TABLE III.**  
**INFANTILE MORTALITY 1940-45.**

<i>Cause of Death.</i>	<i>Did not survive one week.</i>	<i>Lived over 1 week, but less than 4 weeks.</i>	<i>Survived 1 month, died under 1 year.</i>	<i>Total.</i>
Prematurity ... ..	14	2	1	17
Birth Injuries ... ..	5	—	—	5
Malformation ... ..	5	5	2	12
Overlaying ... ..	—	1	2	3
Pneumonia-Bronchitis .	—	—	8	8
Other causes ... ..	—	2	6	8
	24	10	19	53

The high incidence of Respiratory trouble, is largely due to bad housing and overcrowding.

With regard to the causes of Infantile Death within the first week (many within 24 hours of birth), there is indicated the need for more adequate use being made of Ante-Natal facilities, and the provision of Maternity Beds to which patients might be sent for Ante-Natal observation and treatment.



## SECTION B.—GENERAL PROVISION OF HEALTH SERVICES FOR THE AREA.

### (a) LABORATORY FACILITIES.

There are no local facilities for laboratory work. Arrangements have been made with the County Council for the examination of all pathological specimens, including those connected with venereal disease, at the Essex County Public Health Laboratory.

### (b) AMBULANCE FACILITIES.

Until the end of June, the Town Ambulance was serviced by the Borough and manned by Civil Defence personnel. On the disbandment of the latter, three full-time drivers were engaged. In addition to manning and servicing the Ambulance, these drivers undertake gardening and other similar duties at the Harwich and District Hospital. The Hospital makes a financial contribution in respect of such work. When the necessity for an additional attendant in the Ambulance arises, this duty is carried out by a Voluntary helper. The services of these helpers, frequently called for at inconvenient times and nearly always at very short notice, is very much appreciated.

During the year the following journeys were undertaken :—

			<i>Maternity.</i>	<i>Other.</i>	<i>Total.</i>
Local	...	...	—	216	216
Rural	...	...	32	8	40
Colchester...	...	...	18	23	41
Ipswich	...	...	—	33	33
Manningtree	...	...	—	1	1
Black Notley	...	...	—	3	3
London	...	...	1	1	2
Great Bentley	...	...	8	—	8
Polstead	...	...	—	1	1
Total	...	...	59	286	345

Total Mileage—5,543.

Average Mileage per journey—16.07.

The Ambulance has done yeoman service since it was originally made available for the general public some thirteen years ago.

It is anticipated that the proposed National Scheme for the Hospital service will also provide for Ambulance facilities. Until such a scheme comes into actual being, it will be necessary for the Local Authority to provide an Ambulance Service, and in this connection the possibility of having to replace the present vehicle must not be overlooked.

Recapitulation of the terms and conditions under which the Ambulance can be used may be of interest :—

1. Ambulance facilities are available for all cases of accident or illness, who cannot conveniently travel by other means. The Ambulance is also available for Maternity cases.

2. The Ambulance can be called out by the medical practitioners or in cases by street accidents, etc. by the Police. For maternity cases the request may also be made by a midwife.

3. No charge is made for the use of the Ambulance to residents in the Borough, unless the Ambulance is required to go beyond Ipswich or Colchester.

A charge is however, made upon users who live outside the Borough.

## **(c) NURSING IN THE HOME.**

### **(1) District Nurses, Midwives.**

There are two District Nurse Midwives in the Borough, who are appointed and controlled by the Harwich and District Nursing Association. This is a voluntary organisation, supported by voluntary contributions, and has a committee of ladies under the able chairmanship of Mrs. R. A. Ward, J.P. It is affiliated to the Essex County Nursing Association, which makes an annual grant towards the Nurses' salaries.

The Supervising Authority under the Midwives' Act, 1902 and 1918, is the Essex County Council.

### **(2) Home Helps.**

In spite of persistent efforts it has not been found possible to establish a "Home Help" Service, with any degree of success. As indicated in the circulars issued by the Ministry of Health, it is intended that a Home Help shall be able to look after an invalid at home (apart from duties which are definitely the work of a trained Nurse). The Home Help should also be available to look after the husband or children, of a mother who is sent to hospital or convalescent home. Diligent enquiries at what might be considered a reasonable rate of pay have failed to attract suitable persons to the Service. This is regrettable, as it is felt that the use of such helps would relieve the pressure upon hospital beds, both Medical, Surgical and Maternity.

**(d) CLINICS AND TREATMENT CENTRES.**

**(1) Maternity and Child Welfare.**

(a) Ante-Natal and Post Natal Clinics are held at "Tower House" on the 2nd and 4th Friday of each month at 2.15 p.m.

**(b) INFANT AND TODDLER CLINIC.**

(i) "Tower House," each Tuesday at 2.15 p.m.

(ii) All Saints' Church Hall, each Monday at 2.15 p.m.

Dental Inspection and treatment facilities are available for all expectant mothers, infants and toddlers.

Orthopaedic and Eye defects in young children are dealt with at the respective clinics indicated below.

**(2) Diphtheria Immunisation.**

Facilities for this are available at "Tower House" each Friday at 11 a.m.

**(3) School Medical Service (Under the County Council).**

(a) **School Clinic** at "Tower House" each Tuesday and Friday at 10.0 a.m. Treatment of Minor Ailments daily at 9.30 a.m.

(b) **Dental Clinic** at "Tower House" each Tuesday at 10.0 a.m. and 1st, 3rd and 5th Friday at 2 p.m.

(c) **Ophthalmic Clinic** at "Tower House" 2nd Monday of each month.

(d) **Orthopaedic Clinic** at "Tower House" three times monthly.

**(4) Tuberculosis. (Under County Council).**

This clinic under the auspices of the County Council is held at the Health Department, Old Isolation Hospital, on the 1st and 3rd Tuesday of each month at 11.0 a.m.

**(5) Venereal Diseases. (Under County Council).**

Treatment is given at the Health Department on :—

Monday 9.0 a.m.—10.0 a.m.

Wednesday 11.0 a.m.— 1.0 p.m.

Thursday 6.0 p.m.— 7.0 p.m.

Saturday 9.0 a.m.—10.0 a.m.

Or by appointment.

(e)

## HOSPITALS.

There is a general hospital called "The Harwich and District Hospital and Fryatt Memorial," situated at Dovercourt. This contains 24 beds, and 2 cots, and provides facilities for all general, medical and surgical treatment.

The Hospital has an endowment, but is mainly dependant on voluntary contributions, donations, patients' payments, and a workmen's contributory scheme. A reciprocal arrangement is in force, whereby treatment for residents in the Borough is available at the East Suffolk and Ipswich Hospital, and also at the Essex County Hospital, Colchester.

There are no Hospital or Nursing Home facilities in the Borough for Maternity cases those patients requiring hospitalisation have to be conveyed to either the Essex County Hospital at Tendring (a distance of about 11 miles) or to the Colchester Borough Maternity Home, which involves a journey of some 20 miles. The absence of local facilities is very regrettable and definitely adds to the risk of maternal morbidity and infantile survival.

There are no facilities for dealing with complicated obstetrics at the Tendring Hospital which fact further aggravates the unsatisfactory position.

The number of beds available at Tendring and Colchester is limited and appears to be quite inadequate to deal with the number of births in the area they serve. Considering the distance from the Hospitals at present available and the rising number of births in the Borough, a strong case could be put forward of the facilities within the Town, either as an extension of the Voluntary Hospital or preferably as a separate organisation.

## (f) MATERNITY AND CHILD WELFARE.

### (I) Notifications of Births.

Number of births notified in the area during the year.. (Section 203 of the Public Health Act, 1936) :—

Live Births	...	...	...	208
Still Births	...	...	...	7
				<hr/>
Total	...	...	...	215
				<hr/>
By Midwives	...	...	...	126
By Doctors	...	...	...	89

## (2) Health Visiting.

- (a) Number of Health Visitors employed at the end of the year :—
- |                                |     |     |     |
|--------------------------------|-----|-----|-----|
| (i) by the Council             | ... | ... | 2   |
| (ii) by Voluntary Associations | ... | ... | Nil |
- (b) Equivalent of whole-time services devoted by the whole staff to health visiting (including attendance at Infant Welfare Centres) :—
- |  |     |     |     |
|--|-----|-----|-----|
| (i) in the case of Health Visitors employed by the Council             | ... | ... | 1   |
| (ii) in the case of Health Visitors employed by Voluntary Associations | ... | ... | Nil |
- (c) Number of Visits paid during the year by all Health Visitors :—
- |  |     |     |       |
|--|-----|-----|-------|
| (i) to expectant mothers—                            |     |     |       |
| First Visits   | ... | ... | 6     |
| Total Visits   | ... | ... | 10    |
| (ii) to children under 1 year of age—                |     |     |       |
| First Visits   | ... | ... | 270   |
| Total Visits   | ... | ... | 1,132 |
| (iii) to children between the ages of 1 and 5 years— |     |     |       |
| Total Visits   | ... | ... | 1,262 |

## (3). Infant Welfare Centres.

- (a) Number of Centres provided and maintained by the Council ... .. 1
- (b) Number of Centres provided and maintained by Voluntary Associations ... .. Nil
- (c) Total number of attendances at all centres during the year :
- |  |     |     |       |
|--|-----|-----|-------|
| (i) by children under 1 year of age                | ... | ... | 1,547 |
| (ii) by children between the ages of 1 and 5 years | ... | ... | 562   |
- (d) Total number of children who first attended at the centres during the year and who on the date of their first attendances were :
- |  |     |     |     |
|--|-----|-----|-----|
| (i) under 1 year of age                | ... | ... | 196 |
| (ii) between the ages of 1 and 5 years | ... | ... | 69  |
- (e) Total number of children under 5 years of age, who attended at the centres during the year and who, at the end of the year were :
- |                         |     |     |     |
|-------------------------|-----|-----|-----|
| (i) under 1 year of age | ... | ... | 140 |
| (ii) over 1 year of age | ... | ... | 225 |
- (f) Percentage of notified live births represented by the number in (d) (i) ... .. 94 per cent.

## Comments.

(1) It is a matter for gratification that negotiations have been brought to a fruitful conclusion, and that during 1946 facilities will be provided for an Infant Welfare Clinic at All Saints' Church Hall, Dovercourt.

(2) Some of the figures given do not yield a completely accurate picture : for example, the number of children under 1 year of age upon whom the Health Visitors called (shown under (2)(c)(ii) above) includes some children who during infancy moved into this area.

## (4.) Ante-Natal and Post-Natal Supervision.

	Ante-Natal.	Post-Natal.
(a) Ante-natal and Post-natal Clinics (whether held at Infant Welfare Centres or at other premises) :		
(i) Number of Clinics provided and maintained by the Council ... ..	1	1
(ii) Number of Clinics provided and maintained by Voluntary Associations ... ..	—	—
(iii) Total number of attendances at all Clinics during the year ... ..	401	—
(iv) Total number of women who attended at the Clinics during the year...	136	—
(b) Total number of expectant mothers ante-natally examined and of cases post-natally examined during the year, under arrangements made by the Council with private medical practitioners, excluding cases included under (5) (a) (iv)... ..	Nil	Nil
(c) Percentage of total notified births (live and still) represented by the total numbers of women shown under 5 (a) (iv) and 5 (b) ... ..	60 per cent.	
(d) Number of women (if any) sent by the Council during the year to other Maternity Institutions ... ..		45

## Comment.

As is indicated under Section A of the report, during the year there were nine Still Births and three Neo-Natal Deaths. It is significant that the expectant mothers whose pregnancies yielded still births, do not appear to have availed themselves of facilities for Ante-Natal supervision, and the same might be said in respect of premature births, resulting in Neo-Natal deaths. While it is difficult to generalise from small numbers, these statistics would definitely suggest the necessity for adequate and early supervision for all expectant mothers.



## (5). Supply of Milk and other Foods.

Dried milks and other preparations have been supplied as required to both expectant and nursing mothers and to infants, in necessitous cases no charge being made. The supply of foods while better than in the previous year was still considerably affected by curtailed deliveries from the manufacturers.

National Dried Milk is available at the Food Office only, the other dried milks and foods are available at the Infant Welfare Centres, and Orange Juice, Cod Liver Oil, and Vitamin Capsules may be obtained at either "Tower House" Clinic or at the Food Office.

Food statistics regarding the extent to which Orange Juice, Cod Liver Oil, and Vitamin Tablets are asked for, are necessarily merely an estimation. Such statistics do however indicate that less than 50 per cent. of expectant mothers and infants are taking Orange Juice, and less than 20 per cent. are taking Cod Liver Oil, while only one in three of expectant mothers avail themselves of Vitamin Tablets. This reflects a regrettable attitude on the part of the potential beneficiaries, particularly so in view of the continued shortage of many of the vitamin containing foodstuffs.

An indication of the general financial position in the area may be gleaned from the fact that while there has been a definite increase in the quantity of food sold, the proportion of food supplied free has fallen from .07 per cent. to .02 per cent.

	Cost Price.	Free.
Cow and Gate, packets ...	3227	32
Ostermilk, tins ...	764	3
Trufood, tins ...	474	51
Farex, packets ...	658	5
Midlothian Oat Food, tins .	160	—
Virol, cartons ...	356	36
Glucose D, packets ...	433	—
Maltoline, jars ...	24	11
Lactagol, tins ...	84	—
Ribena, bottles ...	49	—
Bemax, tins ...	83	—
Cod Liver Oil Emulsion, bottles ...	13	2
Marmite, cartons ...	25	—
Roboleine, cartons ...	39	—
Semolina, packets ...	13	—
National Dried Milk, tins .	83	—

### Supply of Orange Juice, Etc.

Orange Juice ...	14,727 bottles
Cod Liver Oil ...	2,233 bottles
A and D Capsules ...	318 packets



## 6. Child Life Protection (Sections 206 to 220 of the Public Act, 1936).

(a)	Number of persons who were receiving children for reward at the end of the year ... ..	6
(b)	Number of children :	
	(i) at the end of the year ... ..	8
	(ii) who died during the year ... ..	Nil
	(iii) on whom inquests were held during the year	Nil
(c)	Number of Child Protection Visitors at the end of the year who were :	
	(i) Health Visitors ... ..	2
	(ii) Female, other than Health Visitors ... ..	Nil
	(iii) Male ... ..	Nil
(d)	Number of persons (in addition to or in lieu of Visitors under (c) above) or societies authorised to visit under the proviso to Section 209 (2) of the Public Health Act, 1936 ... ..	Nil
(e)	Proceedings taken during the year :	
	No. of cases ... ..	Nil
	Act and Section under which proceedings were taken ... ..	—

Work in connection with Child Life Protection continues to occupy an increasing proportion of the time and energies of the Visitors during the year, and it was deemed advisable to designate both the Health Visitors as Child Protection Visitors.

The work, mostly unseen and often thankless in its nature, calls for the exercise of considerable tact, and it is gratifying to record that in practically every instance the Visitors have been able to establish friendly relationship with Foster Parents.

Several instances of boarded out children have been discovered during the course of their normal routine work by the Health Visitors, and it is desirable that the attention of the public be frequently drawn to the Legal Enactment which requires that any person, accepting the care of a child under the age of nine, shall inform the Welfare Authority **before** receiving such child.



This water is reasonably clear and bright in appearance, neutral in reaction, and contains a trace of iron. The water is normal in respect of hardness and salinity, and is of a high standard of organic and bacterial purity.

All samples were analysed by the County Public Health Laboratories.

## II. SEWERAGE AND DRAINAGE.

The Borough (except a few low lying parts) is sewered but owing to the town's growth it is necessary to provide a new sewerage system and treatment works for the Upper Dovercourt and part of the Lower Dovercourt area. The present treatment works are unsatisfactory and a new scheme has been prepared and approved by the Ministry of Health and will be given some priority for post War Works.

### CLOSET ACCOMMODATION.

The approximate number is as follows :—

Water closets	...	...	...	4,873
Pail closets	...	...	...	39
Houses with cesspool drainage.				71

Most closets in the Borough are of the wash-down type flushed by cisterns. There are still a few handflushed closets and if nuisances arise owners are called upon to provide and fix flushing cisterns.

The emptying of cesspools and pail closets is the responsibility of the owners, although the Council arranges for emptying at the expense of and on request of the owners.

## III. SCAVENGING.

Household refuse is collected once weekly, together with all types of salvage, by the Council by direct labour, and is disposed of as far as practicable by controlled tipping.

### SALVAGE.

The following is the weight and value of all salvage collected and sold during the year, and the figures for 1944 are shown for comparison.

	1944.					1945.				
	Tons	Cwt.	£	s.	d.	Tons	Cwt.	£	s.	d.
Waste Paper ...	...	52 15	336	18	10	...	43 12	285	18	6
Metals ...	...	5 5	27	4	0	...	2 0	38	19	0
Rags and Sacking	...	3 9	61	14	10	...	2 1 $\frac{3}{4}$	33	10	0
Kitchen Waste	...	39 2	58	13	6	...	39 11 $\frac{3}{4}$	60	6	1
Rubber...	...	2 6	5	16	0	...	— —	—	—	—
Jam Jars	...	— —	1	9	4	...	— —	—	—	—
Bones ...	...	5 12	26	0	9	...	2 14	13	15	9
		<hr/>	<hr/>	<hr/>	<hr/>		<hr/>	<hr/>	<hr/>	<hr/>
		108 9	£517	17	3	...	89 19 $\frac{1}{2}$	£432	9	4

#### IV. (a) DISINFECTION.

At the old Isolation Hospital, Main Road, Dovercourt, there is a disinfecting station fitted with a Thresh Steam Disinfector, which is used for the steam disinfection of bedding and clothing. This apparatus is antiquated and it is hoped that an up to date cleansing station will be included in the post-war works. In the case of infectious diseases the room or rooms occupied by the patient are fumigated by means of formilin, either in the form of spray, or gas, or both and when necessary the bedding etc. is removed for steam disinfection.

#### (b) ERADICATION OF BED BUGS AND SCABIES.

In the case of bed bugs, the co-operation of the property owner is sought. Skirting architraves, etc., are removed and paper stripped off the walls of the infested room and burnt. The walls, ceilings and floors are then sprayed with an approved disinfectant which now contain a percentage of D.D.T. and either formilin or sulphur gas released in the room, and the room hermetically sealed and left for at least twelve hours. The bedding, etc., afterwards being removed and steam disinfected. The room may have to receive this treatment a second or third time.

In the case of scabies the treatment is the same, without recourse to stripping the walls, etc.

#### V. RAT DESTRUCTION.

It is the policy in this area to continually attack and destroy the rat population, and to this end the Council employ Rat Catchers who are available at any time to deal with the rat nuisance. During the year these men have trapped and destroyed 3,116 rats. Poison baits are also used in certain positions and judging by the take of baits and the decrease in the number of rats seen after the laying of baits the total number of rats destroyed would appear to be far in excess of the number stated.

#### WASP NESTS.

During the summer 12 Wasp Nests were destroyed in the Borough.

## VI. SANITARY INSPECTION OF THE AREA.

Summary of Sanitary Inspector's visits and notices served.

Nature of Visits of Inspections.						Total Visits.
1.	Water supply and wells	...	...	...	...	8
2.	Drainage	...	...	...	...	27
3.	Infectious Diseases	...	...	...	...	22
4.	Under Housing Acts...	...	...	...	...	158
5.	Miscellaneous Housing Visits	...	...	...	...	40
6.	Verminous Premises...	...	...	...	...	5
7.	Dirty Person	...	...	...	...	1
8.	Rabbit infestation	...	...	...	...	6
9.	Rat and Mice Destruction	...	...	...	...	68
10.	Cowsheds and Dairies	...	...	...	...	18
11.	Food Inspection	...	...	...	...	57
12.	Bakehouses	...	...	...	...	17
13.	Factories	...	...	...	...	12
14.	Workshops	...	...	...	...	32
15.	Outworkers	...	...	...	...	30
						<hr/> 501 <hr/>

### Notices Served :

Informal Notices	...	...	...	...	...	26
Informal notices complied with	...	...	...	...	...	24
Statutory notices	...	...	...	...	...	1
Statutory notices complied with...	...	...	...	...	...	1

## SECTION D.

### HOUSING.

I.	No new houses were erected during the year.	
II.	1 (a) Total number of dwelling houses inspected for Housing defects, excluding Council Houses and War Damaged Houses. (Under Public Health or Housing Acts) ... ..	158
	(b) Number of Inspections made for the purpose ...	158
	2 (a) Number of dwelling houses (included under subhead I (a) above which were inspected and recorded under the Housing Consolidated Regulations, 1925 ... ..	158
	(b) Number of inspections made for this purpose ...	158
	3 Number of dwelling houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation ... ..	2
	4 Number of dwelling houses (exclusive of those referred to under preceding subhead) found not to be in all respects reasonably fit for human habitation ... ..	27
III.	Number of defective dwelling houses rendered fit in consequence of informal action by the Local Authority of their Officers ... ..	25
IV.	ACTION UNDER STATUTORY POWERS.	
A.	Proceedings under Sections, 9, 10 and 16 of the Housing Act, 1936 ...	
	1 Number of dwelling houses in respect of which notices were served requiring repairs ... ..	1
	2 Number of dwelling houses which were rendered fit after service of formal notices ... ..	1
	(a) by Owners ... ..	—
	(b) By Local Authority in default of owners ... ..	1
B.	Proceedings under Public Health Acts ... ..	Nil
C	Proceedings under Section 11 and 13 of the Housing Act, 1936 ... ..	Nil
D	Demolition orders made ... ..	2



## SECTION E.

### INSPECTION AND SUPERVISION OF FOOD.

#### I. MILK SUPPLY.

There are five registered cowkeepers in the Borough. In every case the cows are brought in only for milking.

The greater part of the milk consumed within the Borough is imported from outlying areas.

The following statement shows the number of purveyors of milk registered under the Milk and Dairies Regulations :

Number on register at 31st December, 1944	55
Deleted as redundant                      ...                      ...                      ...	38
	<hr/>
Number on register at 31st December, 1945	17
	<hr/>

Of the above purveyors of milk only eight are now supplying milk by licence from the Ministry of Food.

Frequent visits are made to all cowsheds, milkshops, and the premises are found to be kept in a clean condition.

The supply of milk is of great importance, and I feel that until all Dairies, cowsheds and milkshops are licensed annually and power given to Local Authorities to refuse licences where the premises are not in all respects scrupulously clean, the milk supply will not be beyond reproach.

Three cowkeepers who purvey most of their milk in the Borough supply Accredited Milk under licence from the County Council, and one retailer holds a licence to purvey Accredited Milk, one Tuberculin Tested Milk and three hold licences for Pasteurised Milk.

#### II. MEAT INSPECTION.

As from February, 1940, all slaughtering came under Government Control, and since April 10th, 1942, slaughtering of animals has ceased in the Borough, as all slaughtering for this area is carried out at Colchester.

#### III. FOOD SHOPS.

Frequent inspections are made of all shops, stores, and vehicles where food is stored for sale. These premises are found to be in a clean condition and to comply with the regulations.



# IV. Foodstuffs Condemned During 1945.

## Nuts.

Pea nuts	...	...	...	...	...	374	lbs.
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## Vegetables.

Carrots	...	...	...	...	...	5	tons.
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## Wet Fish.

Dabs	...	...	...	...	...	67	lbs.
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## Fresh Meat.

Beef, English	...	...	...	...	...	321	lbs.
---------------	-----	-----	-----	-----	-----	-----	------

## Tinned Meats.

Corned Beef	...	...	...	3 Tins	...	3	lbs.
Steak	...	...	...	9	"	9	lbs.
Brisket	...	...	...	2	"	8	lbs.
Tongue	...	...	...	2	"	6 $\frac{3}{4}$	lbs.
Mutton	...	...	...	3	"	18	lbs.
Pork Luncheon Meat	...	...	...	14	"	17 $\frac{1}{2}$	lbs.
Pork Sausage	"	...	...	17	"	25 $\frac{1}{2}$	lbs.
Chopped Ham	...	...	...	5	"	12 $\frac{1}{2}$	lbs.

## Tinned Fish.

Pilchards	...	...	...	34 Tins	...	32	lbs.
Herrings	...	...	...	9	"	9	lbs.
Sardines	...	...	...	13	"	2 $\frac{1}{2}$	lbs.
Salmon	...	...	...	1	"	3 $\frac{3}{4}$	lbs.
Crawfish	...	...	...	4	"	2	lbs.
Shrimps	...	...	...	1	"	$\frac{1}{4}$	lb.

## Milk, Tinned.

Milk, full Cream	...	...	...	17 Tins	...	15 $\frac{1}{2}$	lbs.
Milk, Evaporated	...	...	...	446	"	404	lbs.

## Other Tinned Foods.

Peas	...	...	...	13 Tins	...	21	lbs.
Beans	...	...	...	76	"	92	lbs.
Soup	...	...	...	8	"	8	lbs.
Vegetables in gravy	...	...	...	10	"	10	lbs.
Mixed Vegetables	...	...	...	4	"	4	lbs.

## Other Foods.

Bacon ... ..	29 $\frac{3}{4}$ lbs.
Cheese ... ..	34 $\frac{1}{2}$ lbs.
Sugar ... ..	33 lbs.
Tea ... ..	31 lbs.
Butter ... ..	56 lbs.
Margarine ... ..	4 $\frac{3}{4}$ lbs.
Golden Syrup ... ..	4 lbs.
Various Jams ... ..	13 $\frac{1}{2}$ lbs.
Marmalade ... ..	7 lbs.
Lemon Cheese ... ..	2 lbs.
Plain Flour ... ..	54 lbs.
Quaker Oats ... ..	24 lbs.
Rice ... ..	38 lbs.
Cornflower ... ..	4 lbs.
Sago ... ..	2 lbs.
Soya Flour ... ..	1 lb.
Biscuits... ..	37 $\frac{1}{2}$ lbs.
Oxo cubes ... ..	50 cubes.
Chocolate ... ..	3 lbs.
Sultanas ... ..	$\frac{1}{2}$ lb.
Pudding Mixtures ... ..	89 $\frac{1}{2}$ lbs.

## V. BAKEHOUSES.

There are seven bakehouses in operation and frequent visits are made. All are kept in clean condition. All premises have been hot lime-washed at least twice during the year. There are no underground bakehouses in use in the Borough.

## FACTORIES ACT.

Report on the administration of the Factory and Workshop Act, 1901, and the Factories Act, 1937.

Inspection for Purposes of provisions as to health including inspection made by Sanitary Inspector.

<i>Premises</i>	<i>Inspections</i>	<i>Written Notices</i>	<i>Occupiers Prosecuted</i>
Factories with mechanical power..	12	—	—
Factories without „ „ ...	32	—	—
Other premises under the Act including works of building and engineering construction.	—	—	—
	<hr/> 44 <hr/>		
Defects found ... ..	nil		

## SECTION F.

### PREVALENCE OF, AND CONTROL OVER, INFECTIOUS AND OTHER DISEASES.

The year was characterised by a somewhat extensive epidemic of measles, during the spring and early summer months ; the disease was however of a mild type, there being no fatal cases ; nor does there appear to have been wide spread resultant chest disorders.

Following the Scarlet Fever epidemic of 1944, the number of cases reported during the current year approaches more nearly the average.

The Borough continues to enjoy comparative freedom from such notifiable infectious diseases as Cerebro-Spinal Fever, Anterior Poliomyelitis (Infantile Paralysis) and the Enteric Fevers.

### PROPHYLACTIC IMMUNISATION AGAINST DIPHTHERIA.

Number of Children who had completed a full course of Immunisation at any time up to 31st December, 1945.

Age at 31.12.45 i.e. Born in Year	Under 1 1945	1 1944	2 1943	3 1942	4 1941	5 to 9 1936-40	10 to 14 1931-35	Total under 15
Number Immunised	4	82	104	121	105	739	679	1,834
Estimated mid-year population 1945	960					1,550		2,510
Estimated Percentage Immunised.	43.3					91.1		73.1

**Comment.** The figure indicating the number of Immunised children between 5 and 15 years, may be considered as satisfactory, but anything less than 80 per cent. of pre-school children cannot be so regarded. It is probable that a proportion of infants have been immunised by Practitioners in the course of their private practise, and the fact not reported to the Authority. Making allowance for this however, it is still a matter of regret that too many parents are indifferent to appeals made personally by Health Visitors and others, and to Press, Film, and Wireless propaganda; the only alternative explanation is that they are too lazy or lacking that desire to protect their offspring from a disease which is still severe in the damage it can inflict. Particularly would one stress the necessity for Immunisation of every infant in an area so exposed to possible invasion by Diphtheria from Continental Countries.

TABLE IV.

**Incidence, Mortality of Diphtheria.**

		<i>Cases.</i>	<i>Deaths.</i>
1916—20 ...	...	160	22
21—25 ...	...	148	9
26—30 ...	...	120	2
31—35 ...	...	89	3
36—40 ...	...	10	1
41—45 ...	...	5	1

**Comment.** The quinquennial incidence and mortality from Diphtheria is shown in the table, from which it will be noted that the risk of developing Diphtheria is much less than a quarter of a century ago. Many causes have contributed to this happy state of affairs, amongst which one of the chief is the widespread immunity now enjoyed by children under 15 years of age, as a result of the prophylactic measures adopted.

Attention is however directed to the fact that the disease once developed is just as deadly in the non-immunised to-day as twenty or thirty years ago.

TABLE V.

## NOTIFIABLE DISEASES (other than Tuberculossi) during the year 1945.

## TOTAL CASES NOTIFIED.

DISEASES.	AGE IN YEARS.								Total	Cases admitted to Hospital	Deaths
	0-1	1-2	3-4	5-9	10-14	15-24	25-44	45-64	65—		
Scarlet Fever ...	—	—	1	8	5	2	—	—	16	9	—
Diphtheria ...	—	—	—	—	—	1	—	—	1	—	—
Measles ...	15	40	82	117	4	5	3	—	266	—	—
Whooping Cough ...	4	8	16	12	1	—	—	—	41	—	—
Pneumonia ...	3	2	—	1	—	—	1	—	7	—	10
Cerebro Spinal Fever ...	—	—	—	—	—	—	—	—	1	—	—
Acute Poliomyelitis ...	—	—	—	—	—	—	—	—	—	—	—
Polio-Encephalitis ...	—	—	—	—	—	—	—	—	—	—	—
Encephalitis Lethargica	—	—	—	—	—	—	—	—	—	—	—
Enteric Fever including Paratyphoid ...	1	—	—	—	—	—	—	—	1	1	—
Dysentery ...	—	—	—	—	—	—	—	—	—	—	—
Smallpox...	—	—	—	—	—	—	—	—	—	—	—
Erysipelas ...	—	—	—	—	1	—	2	1	5	1	—
Puerperal Pyrexia ...	—	—	—	—	—	—	1	—	1	—	—
Ophthalmia Neonatorum	—	—	—	—	—	—	—	—	—	—	—
Infective Jaundice ...	—	—	—	1	—	1	1	—	3	—	—
Total	23	50	99	139	11	9	9	1	342	11	10

TABLE VI.

## MONTHLY NOTIFICATIONS OF INFECTIOUS DISEASES DURING 1945.

Diseases.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Smallpox ...	—	—	—	—	—	—	—	—	—	—	—	—	—
Scarlet Fever	1	2	1	—	1	1	1	2	1	2	4	—	16
Diphtheria	—	—	—	—	—	—	—	—	—	—	—	1	—
Enteric Fever, including Paratyphoid	—	—	—	—	—	—	—	—	—	—	—	—	—
Puerperal Pyrexia	1	—	—	—	—	—	—	—	—	—	—	—	—
Pneumonia	1	2	2	1	—	—	—	—	—	—	—	—	7
Erysipelas	—	—	—	—	—	—	1	—	1	1	1	—	5
Cerebro-Spinal Fever	—	—	—	—	—	—	1	—	—	—	—	—	1
Measles ...	—	—	21	82	41	33	85	4	—	—	—	—	266
Whooping Cough	—	—	—	—	—	4	—	3	—	7	20	7	41
Ophthalmia Neonatorum	—	—	—	—	—	—	—	—	—	—	—	—	—
Infective Jaundice	1	—	—	—	—	1	—	—	—	—	—	1	3

TABLE VII.

# INFECTIOUS DISEASES AND TUBERCULOSIS CASES NOTIFIED DURING PAST TEN YEARS.

(Figures in parenthesis indicate Number of Deaths during each year).

Disease.	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945
Scarlet Fever ...	20(0)	7(0)	10(0)	11(0)	4(0)	4(0)	4(0)	12(0)	50(0)	16(0)
Diphtheria ...	1(1)	6(0)	1(0)	2(0)	—	—	1(0)	—	1(1)	1(0)
Puerperal Sepsis ...	—	—	—	—	1(0)	—	1(0)	—	1(0)	—
Erysipelas ...	—	2(0)	1(0)	3(0)	2(0)	2(0)	2(0)	2(0)	3(0)	5(0)
Cerebro Spinal Fever ...	—	—	—	—	3(0)	—	—	1(1)	—	1(0)
Enteric Fever including Para-										
typhoid ...	—	—	—	—	1(0)	1(0)	—	—	—	1(0)
Measles ...	—	Not Notifiable.	—	—	1(0)	90(0)	156(0)	71(0)	3(0)	266(0)
Whooping Cough ...	—	—	—	—	—	126(0)	50(0)	4(0)	27(0)	41(0)
Pneumonia ...	27(4)	16(3)	6(1)	7(2)	3(1)	6(1)	6(0)	9(2)	5(0)	7(10)
Ophthalmia Neonatorum ...	—	—	—	—	—	1(0)	—	—	—	—
Puerperal Pyrexia ...	—	—	—	—	—	—	—	—	—	1(0)
Infective Jaundice ...	—	—	—	—	—	—	—	—	6(0)	3(0)
T.B.—Pulmonary ...	8(9)	11(6)	7(3)	11(10)	7(4)	6(3)	4(3)	11(3)	10(8)	9(4)
T.B.—Non-Pulmonary ...	5(4)	4(1)	3(0)	2(1)	1(1)	4(2)	3(0)	2(0)	3(0)	4(1)



TABLE VIII.

**TUBERCULOSIS.**

## NEW CASES AND MORTALITY DURING 1945.

Age Periods.	New Cases. notified during year.				Deaths during year.			
	Pulmonary.		Non- Pulmonary.		Pulmonary.		Non- Pulmonary.	
	M.	F.	M.	F.	M.	F.	M.	F.
0—1	—	—	—	—	—	—	—	—
1—5	1	—	1	—	—	—	—	—
5—15	—	—	—	1	—	—	—	—
15—25	2	1	1	—	—	—	—	—
25—35	—	—	—	—	—	—	—	—
35—45	2	—	—	—	2	—	1	—
45—55	1	1	—	1	—	1	—	—
55—65	1	—	—	—	1	—	—	—
65 and up	—	—	—	—	—	—	—	—
Total ...	7	2	2	2	3	1	1	—

**Comment.**

The number of new cases notified continues at the same high level of the past decade. This is only to be expected, as a result of six years of War, with its resultitng overcrowding.

## METEOROLOGICAL READINGS FOR THE YEARS 1939—1945.

These are now given to enable a permanent record to be made of the figures during the war years when it was not possible to publish meteorological information, together with the yearly amounts of sunshine and rainfall from the year 1925 when this Authority first started its meteorological station.

<i>Year</i>	<i>Sunshine Hours.</i>	<i>Rainfall Inches.</i>
1925	1698.5	20.18
1926	1625.1	20.78
1927	1551.6	20.57
1928	1906.8	24.50
1929	1816.2	22.80
1930	1726.5	23.65
1931	1614.3	17.35
1932	1437.6	19.52
1933	1908.4	15.67
1934	1792.0	19.57
1935	1910.0	24.75
1936	1617.4	23.39
1937	1554.1	27.50
1938	1780.9	27.50
1939	1773.7	29.92
1940	1816.5	20.76
1941	1426.5	22.14
1942	1631.0	23.70
1943	1858.5	16.65
1944	1649.0	22.74
1945	1584.3	19.77

The yearly average sunshine for the past 21 years is 1699.6 hours.

The yearly average rainfall for the past 21 years is 22.50 inches.

# 1939.

## Temperatures.

Month.	Means.				Highest		Lowest		Grass Min.
	Dry	Wet	Max.	Min.	Max.	Min.	Max.	Min.	
January ...	41.0	40.3	45.1	36.2	55	45	36	27	22
February ...	41.9	40.4	48.0	37.0	57	50	37	28	26
March ...	42.8	40.0 $\frac{1}{4}$	47.3	35.7	56	44	40	30	24
April ...	49.7	47.5	55.0	42.0	74	52	46	36	29
May ...	54.0	51.0	58.5	44.6	69	49	47	35	35
June ...	60.0	56.6	63.1	50.7	77	58	57	41	37
July ...	62.2	59.6	69.0	55.0	75	63	63	46	40
August ...	63.4	61.5	70.0	57.0	76	62	62	51	44
September .	60.4	59.1	67.0	55.0	78	68	56	48	43
October ...	48.1	47.7	54.0	45.4	61	55	44	33	28
November .	48.0	47.3	53.2	44.5	60	53	44	33	26
December..	38.1	37.3	42.2	34.8	56	50	32	27	15

## Bright Sunshine.

Month.	Hours Bright Sunshine.		Daily Average.	Number of Sunless Days.
January ...	...	58.5	1.9	11
February ...	...	113.9	4.1	6
March ...	...	114.5	3.7	7
April...	...	188.4	6.3	2
May ...	...	254.3	8.2	2
June ...	...	237.8	7.9	3
July ...	...	210.9	6.8	0
August ...	...	210.0	6.8	1
September ...	...	178.3	5.9	0
October ...	...	98.7	3.2	8
November ...	...	52.1	1.7	10
December ...	...	56.3	1.8	15
Totals	...	1,773.7	4.83	65

## Rainfall.

Month.	Total Fall in Inches.		Greatest Fall in 24 Hours.	Date.
January ...	...	5.22	1.68	25
February ...	...	0.93	0.40	28
March ...	...	1.26	0.33	21
April...	...	2.50	0.47	30
May ...	...	1.27	0.42	15
June ...	...	1.51	0.60	10
July ...	...	1.04	0.20	24
August ...	...	2.55	1.42	4
September ...	...	0.57	0.30	15
October ...	...	8.21	1.20	11
November ...	...	3.62	0.71	18
December ...	...	1.24	0.45	8
Total	...	29.92	—	—

1940.

**Temperatures.**

Month.	Dry.	Means		Min.	Highest		Lowest		Grass Min.
		Wet.	Max.		Max.	Min.	Max.	Min.	
January ...	31.8	31.1	35.6	27.9	44	40	24	19	18
February ...	35.1	34.7	38.3	31.8	50	42	29	22	15
March ...	41.3	39.9	49.7	36.9	59	46	37	29	16
April... ...	46.6	45.2	53.0	40.4	66	50	45	32	25
May ... ..	55.6	53.3	62.0	47.0	68	57	53	38	29
June ... ..	61.9	60.4	69.0	54.0	79	61	62	49	41
July ... ..	61.2	60.1	68.0	55.0	72	63	62	48	42
August ...	61.2	59.9	69.0	55.0	85	62	61	46	39
September.	57.4	55.1	65.8	50.7	79	62	57	41	33
October ...	50.3	49.3	57.0	43.0	63	54	46	35	22
November .	44.7	43.6	51.0	40.0	60	49	42	32	23
December..	38.1	37.8	42.6	34.6	50	40	36	30	20

**Bright Sunshine.**

Month.	Hours Bright Sunshine.		Daily Average.	Number of Sunless Days.
January ... ..	...	81.7	2.60	13
February ... ..	...	30.6	1.05	18
March ... ..	...	151.0	4.87	4
April... ...	...	136.2	4.57	2
May ... ..	...	279.2	9.10	1
June ... ..	...	285.3	9.50	1
July ... ..	...	209.4	6.80	0
August ... ..	...	195.1	6.30	3
September ...	...	179.4	5.98	5
October ... ..	...	123.0	4.70	2
November ...	...	91.9	3.10	8
December ...	...	53.7	1.70	11
Total	...	1,816.5	5.02	68

**Rainfall.**

Month.	Total Fall In Inches.		Greatest Fall in 24 Hours.	Date.
January ... ..	...	2.30	0.50	26
February ... ..	...	1.36	0.34	18
March ... ..	...	2.29	0.88	13
April... ...	...	1.15	0.33	2
May ... ..	...	0.19	0.11	22
June ... ..	...	0.64	0.24	26
July ... ..	...	2.65	0.42	25
August ... ..	...	0.27	0.09	22
September ...	...	0.70	0.27	19
October ... ..	...	2.14	0.25	2
November ...	...	5.34	0.98	13
December ...	...	1.73	0.25	29
Total	...	20.76	—	—

1941.

**Temperatures.**

Month.	Means				Highest		Lowest		Grass
	Dry.	Wet.	Max.	Min.	Max.	Min.	Max.	Min.	
January ...	34.1	33.4	37	30	44	38	31	15	9
February ...	36.7	36.1	42	34	55	46	33	26	16
March ...	40.0	38.9	47	37	56	48	40	30	17
April... ..	44.8	42.5	50	38	61	49	42	31	23
May ... ..	50.7	48.5	55	43	65	55	47	33	23
June ... ..	59.8	56.5	65	48	78	62	54	45	39
July ... ..	66.3	63.1	73	59	82	69	66	50	37
August ...	60.3	57.6	67.2	55	74	59	61	49	41
September .	58.6	56.9	65.3	54	74	61	61	45	33
October ...	51.6	50.4	57.5	46	70	56	46	33	30
November..	43.6	42.9	48.5	40	57	48	41	31	25
December..	40.7	36.3	47.8	32	56	48	38	25	16

**Bright Sunshine.**

Month.	Hours Bright Sunshine.		Daily Average.	Number of Sunless Days.
January ... ..	...	32.5	1.1	10
February ... ..	...	66.0	2.4	8
March ... ..	...	122.1	3.9	7
April... ..	...	125.6	4.2	6
May ... ..	...	80.0	2.7	11
June ... ..	...	239.6	7.9	2
July ... ..	...	266.1	8.6	1
August ... ..	...	183.9	5.9	3
September ...	...	115.2	3.8	2
October ... ..	...	112.9	3.6	1
November ...	...	40.0	1.3	2
December ...	...	42.6	1.3	8
Total ... ..	...	1,426.5	3.9	61

**Rainfall.**

Month.	Total Fall in Inches.		Greatest Fall in 24 hours.	Date.
January ... ..	...	2.39	0.54	18
February ... ..	...	1.70	0.42	5
March ... ..	...	1.96	0.57	25
April... ..	...	1.19	0.71	18
May ... ..	...	1.13	0.42	11
June ... ..	...	1.06	0.46	9
July ... ..	...	1.95	0.77	21
August ... ..	...	3.42	0.93	15
September ...	...	0.27	0.10	14
October ... ..	...	3.07	0.83	9
November ...	...	2.06	0.45	11
December ...	...	1.96	0.73	6
Total ... ..	...	22.16	—	—

# 1942.

## Temperatures.

Month.	Means.			Highest		Lowest		Grass
	Dry.	Wet.	Max.	Min.	Max.	Min.	Max.	Min.
January ...	33.1	31.1	37.3	28.7	49	42	27	23
February ...	31.8	30.1	35.1	29.2	42	33	28	24
March ...	38.3	37.3	46.5	33.8	57	42	30	25
April... ..	48.3	44.9	53.1	41.8	63	45	47	37
May ... ..	54.0	50.8	60.7	46.9	74	54	53	37
June ... ..	60.3	56.4	65.9	49.3	73	60	57	42
July ... ..	62.7	59.2	68.8	54.5	77	61	59	48
August ...	65.1	61.3	70.9	56.4	83	64	61	47
September .	59.2	56.3	66.7	52.2	76	61	56	44
October ...	53.0	51.9	59.8	47.7	67	57	50	39
November .	42.6	42.1	47.7	38.1	55	47	41	31
December..	42.8	42.1	43.7	38.9	53	48	37	29

## Bright Sunshine.

Month.	Hours Bright Sunshine.		Daily Average.	Number of Sunless Days.
January ... ..	...	34.7	1.1	15
February ... ..	...	40.0	1.4	13
March ... ..	...	109.1	3.5	5
April... ..	...	244.8	8.2	2
May ... ..	...	216.7	6.9	0
June ... ..	...	260.0	8.7	1
July ... ..	...	202.1	6.5	1
August ... ..	...	180.2	5.8	2
September ...	...	158.2	5.2	1
October ... ..	...	84.4	2.7	6
November ...	...	45.9	1.5	7
December ...	...	54.9	1.7	7
Totals ... ..	...	1,631.0	4.4	60

## Rainfall.

Month.	Total Fall in Inches.		Greatest Fall in 24 hours.	Date.
January ... ..	...	3.36	0.90	9
February ... ..	...	0.11	0.04	3
March ... ..	...	2.29	0.59	17
April... ..	...	0.52	0.16	4
May ... ..	...	1.52	0.39	23
June ... ..	...	2.96	1.24	30
July ... ..	...	2.11	0.40	26
August ... ..	...	1.27	0.29	2
September ...	...	1.47	0.47	28
October ... ..	...	3.18	0.59	30
November ...	...	2.03	0.83	1
December ...	...	2.88	0.53	18
Total ... ..	...	23.70	—	—

1943.

### Temperatures.

Month.	Means.		Highest		Lowest		Grass
	Dry.	Wet.	Max.	Min.	Max.	Min.	Min.
January ...	39.8	38.8	44.8	36.0	55	34	46
February ...	41.3	39.3	48.6	36.6	56	43	38
March ...	44.5	42.5	51.3	37.4	61	46	44
April... ..	53.7	50.5	60.6	44.3	75	51	50
May ... ..	60.9	54.6	64.2	47.7	77	57	52
June ... ..	61.7	60.0	67.7	51.7	76	62	58
July ... ..	64.8	61.2	76.9	55.4	82	64	64
August ...	67.3	59.5	70.7	56.0	83	65	65
September.	60.2	56.8	66.1	51.4	79	62	57
October ...	54.4	53.2	60.1	47.9	67	56	53
November .	43.7	42.3	49.5	28.7	63	55	40
December..	39.6	38.3	43.6	35.9	49	45	38

### Bright Sunshine.

Month.	Hours Bright Sunshine.	Daily Average.	Number of Sunless days.
January ... ..	65.6	2.1	15
February ... ..	99.0	3.5	11
March ... ..	145.8	4.7	6
April... ..	175.3	5.8	6
May ... ..	278.9	8.9	4
June ... ..	238.2	7.9	0
July ... ..	238.7	7.7	1
August ... ..	202.9	6.5	3
September ...	166.7	5.6	2
October ... ..	95.2	3.7	4
November ...	96.6	3.2	6
December ...	55.6	1.8	12
Total ... ..	1,858.5	5.1	70

### Rainfall.

Month.	Total Fall In Inches.	Greatest Fall in 24 Hours.	Date.
January ... ..	3.72	0.77	13
February ... ..	0.55	0.18	1
March ... ..	0.33	0.11	31
April... ..	0.75	0.37	23
May ... ..	1.51	0.38	24
June ... ..	1.26	0.53	18
July ... ..	1.36	0.71	31
August ... ..	0.89	0.25	5
September ...	1.40	1.25	9
October ... ..	2.02	1.01	21
November ...	1.47	0.37	5
December ...	1.39	0.85	18
Total ... ..	16.65	—	—



1944.

**Temperatures.**

Month.	Means.			Highest		Lowest		Grass	
	Dry.	Wet.	Max.	Min.	Max.	Min.	Max.		Min.
January ...	41.9	40.7	47.8	37.3	56	48	40	29	21
February ...	37.6	36.3	43.2	34.2	57	47	36	28	25
March ...	40.3	38.6	48.3	35.2	68	42	40	26	27
April... ..	51.3	49.6	56.7	42.8	71	49	47	32	29
May ... ..	56.4	54.5	62.0	44.2	78	57	50	34	31
June ... ..	59.2	55.9	66.6	56.9	72	58	56	43	35
July ... ..	64.3	62.7	69.8	56.3	76	64	62	51	37
August ...	66.5	64.7	71.8	58.5	80	64	63	52	49
September.	58.1	56.7	63.4	50.4	70	58	54	42	35
October ...	51.2	50.7	55.5	42.0	60	52	48	30	28
November .	44.4	43.8	49.5	38.8	59	50	41	30	25
December..	37.6	36.9	43.0	33.9	54	45	32	22	13

**Bright Sunshine.**

Month.	Hours Bright Sunshine.		Daily Average.	Number of Sunless days.
January ... ..	...	52.1	1.7	9
February ... ..	...	73.9	2.5	11
March ... ..	...	122.7	3.9	7
April... ..	...	168.2	5.2	6
May ... ..	...	268.5	8.7	2
June ... ..	...	203.0	6.7	2
July ... ..	...	158.1	5.1	7
August ... ..	...	222.6	7.2	3
September ...	...	154.5	5.2	5
October ... ..	...	103.6	3.3	6
November ...	...	77.9	2.5	9
December ...	...	63.9	2.1	12
Total ... ..	...	1,669.0	4.5	79

**Rainfall.**

Month.	Total Fall in Inches.		Greatest Fall in 24 Hours.	Date.
January ... ..	...	2.23	0.70	24
February ... ..	...	1.24	0.76	16
March ... ..	...	0.16	0.08	20
April... ..	...	1.65	0.34	16
May ... ..	...	1.27	0.52	5
June ... ..	...	1.65	0.68	9
July ... ..	...	1.82	0.85	27
August ... ..	...	1.35	0.41	29
September ...	...	2.56	0.49	1
October ... ..	...	3.78	0.65	23
November ...	...	3.64	0.75	14
December ...	...	1.39	0.96	16
Total ... ..	...	22.74	—	—

1945.

### Temperatures.

Month.	Means.				Highest		Lowest		Grass Min.
	Dry.	Wet.	Max.	Min.	Max.	Min.	Max.	Min.	
January ...	32.8	31.8	37.4	28.3	47	18	27	37	9
February ...	43.4	42.6	47.9	38.4	60	31	40	47	21
March ...	44.5	43.0	54.0	39.3	63	31	45	48	22
April... ..	51.7	48.7	57.3	42.8	73	32	45	51	24
May ... ..	56.6	54.0	63.6	47.9	77	32	49	55	28
June ... ..	62.4	57.4	67.9	53.2	79	44	62	62	36
July ... ..	65.6	60.9	75.8	55.6	83	46	64	66	44
August ...	62.3	60.4	68.0	53.5	78	47	62	60	39
September.	60.4	58.3	65.9	54.4	76	45	59	62	39
October ...	55.0	54.1	61.3	49.2	70	38	57	57	30
November .	46.9	46.3	50.2	43.2	58	31	43	53	24
December..	41.1	40.1	45.7	36.9	53	26	35	46	22

### Bright Sunshine.

Month.	Hours Bright Sunshine.		Daily Average.	Number of Sunless Days.
January ... ..	...	39.5	1.3	15
February ... ..	...	78.2	2.8	6
March ... ..	...	137.6	4.4	6
April... ..	...	176.4	5.9	0
May ... ..	...	215.7	6.9	2
June ... ..	...	230.8	7.7	2
July ... ..	...	218.0	7.1	0
August ... ..	...	178.9	5.7	2
September ...	...	104.3	3.5	4
October ... ..	...	117.9	3.8	4
November ... ..	...	36.3	1.2	9
December ... ..	...	50.7	1.6	7
Totals ... ..	...	1,584.3	4.32	57

### Rainfall.

Month.	Total Fall in Inches.		Greatest Fall in 24 Hours.	Date.
January ... ..	...	1.70	0.34	29
February ... ..	...	1.47	0.45	11
March ... ..	...	1.11	0.83	26
April... ..	...	0.73	0.25	29
May ... ..	...	1.68	0.43	3
June ... ..	...	1.36	0.63	3
July ... ..	...	1.57	0.97	26
August ... ..	...	3.72	1.63	5
September ...	...	0.95	0.23	24
October ... ..	...	1.84	0.62	25
November ... ..	...	1.59	0.49	10
December ... ..	...	2.05	0.64	28
Total ... ..	...	19.77	—	—